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Korea: A Different Perspective on the North-South Military Balance

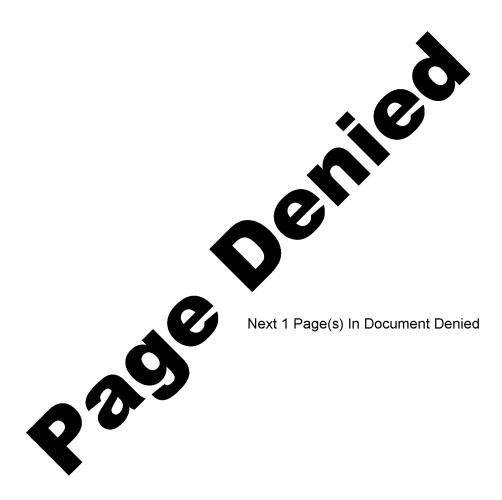
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A Research Paper

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Korea: A Different Perspective on the North-South Military Balance

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A Research Paper

This paper was prepared by Office of East Asian Analysis. Comments and queries are welcome and may be directed to the Chief,
Northeast Asia Division, OEA,

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	Korea: A Different Perspective on the North-South Military Balance	;
mary nation available 15 October 1987 sed in this report.	Our study of North and South Korean military capabilities has produced two major conclusions that differ from the conventional wisdom on the military balance: first, despite its edge in military capabilities, the North cannot achieve early and substantial gains during an invasion of the South even under surprise conditions; and, second, the gap between the capabilities of the two sides may well grow in the North's favor over the next decade:	:
	• Judging from numerical comparisons of men, units, and equipment, North Korea has substantial superiority over the South. This would seem to indicate that the North has a potentially dangerous edge in military capabilities.	
	• Nonetheless, the North's superiority does not translate into victory in battle. The South's network of prepared defenses and the rugged terrain along the demilitarized zone (DMZ) creates a formidable obstacle that compensates in large part for the North's lead in men and weapons.	
	our projections into the 1990s raise a cautionary note. On the basis of the assumptions that the North is committed to expanding and upgrading its weapons production, that its allies will help, and that Seoul's approach to force improvement will remain primarily reactive, we predict that the North will maintain and even increase its lead over the South.	2

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Several key issues could have a major impact on the accuracy of our projections for both countries. For the North, the state of the economy and the succession outcome could dictate P'yongyang's capability to generate the spurt in force improvement in the 1990s that our projections assumed. Our projections for the South assume that Seoul's programs will be affected by inadequate leadtime to counter weapon improvements in the North and by frequent delays in decisions over whether to purchase, produce indigenously, or coproduce new weapons. Such conditions could change, particularly if the South quickly recognized the pace of developments in the North and reacted with more efficiency than it has demonstrated in the past.

In any event, the US military presence, in our judgment, will remain a key element in deterring the North and in providing an augmentation force should deterrence fail.

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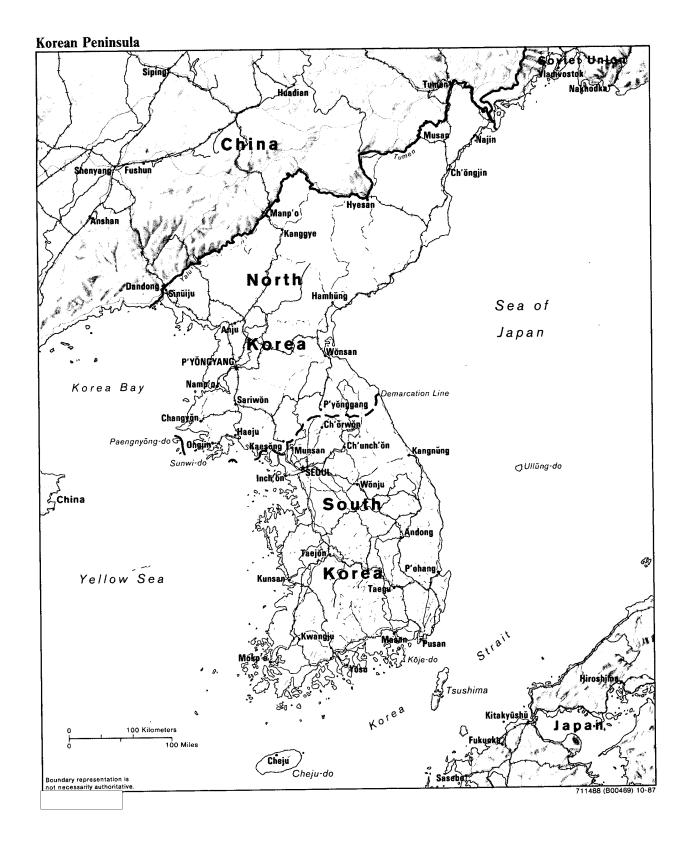
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Korea: A Different Perspective		
on the North-South		
Military Balance		25X1
The Korean Peninsula: A Critical Military Balance		25X1
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The potential for a major conflict on the Korean		
peninsula makes the military balance a critical con- cern for North and South Korea as well as for their		
allies. Both Koreas have been expanding and improv-		
ing their forces since the end of the Korean war, and,	•	
until the late 1960s, we assessed the South to have	Ground Forces. An examination of the two Armies	
approximate parity with the North. Since then, how-	shows that North Korea holds a clear advantage in	
ever, the North Koreans have been engaged in a	numbers of maneuver battalions and in virtually all	
particularly striking ground force buildup—first to expand the force and increase its firepower and then	categories of weapons. The North, for example, has almost a 2-to-1 lead in infantry battalions. Moreover,	
to enhance its mobility. More recently, they have	armored personnel carriers (APCs) and long-bed	
reorganized regular and reserve forces, formed mech-	trucks provide mobility for about one-fifth of its	
anized corps and brigades, and deployed forces for-	infantry battalions, while fewer than 10 percent of the	
ward toward the demilitarized zone (DMZ). Taken	South's infantry battalions are similarly equipped.	_
together, these developments have heightened concern		25X1
in the South about P'yongyang's intentions.		25 X 1
The South has gradually improved its force, for the		
most part reacting to gains in the North. For example,		
Seoul stepped up procurement of antiarmor weapons		
to meet the threat from P'yongyang's rapid expansion		
of its armor force. The South also countered North		
Korea's numerical advantage in fighters with the purchase and coproduction of quality aircraft. At the	Pasama Foresa The North has a similar at	
same time, South Korea has developed an extensive	Reserve Forces. The North has a similar edge in reserve forces. During the 1980s, P'yongyang reorga-	
network of prepared defenses in the rugged terrain	nized its ready reserves and gained a 1.6-to-1 lead	
north of Seoul and extending across the width of the	over the South in the number of reserve divisions.	
peninsula (see map).	Unlike the past, when reserve units on both sides were	25 X 1
The Comment Market D. I.	lightly armed foot infantry formations that lacked	
The Current Military Balance	armor and artillery, both sides recently have been	
	strengthening their reserves. North Korea probably is	25 X 1
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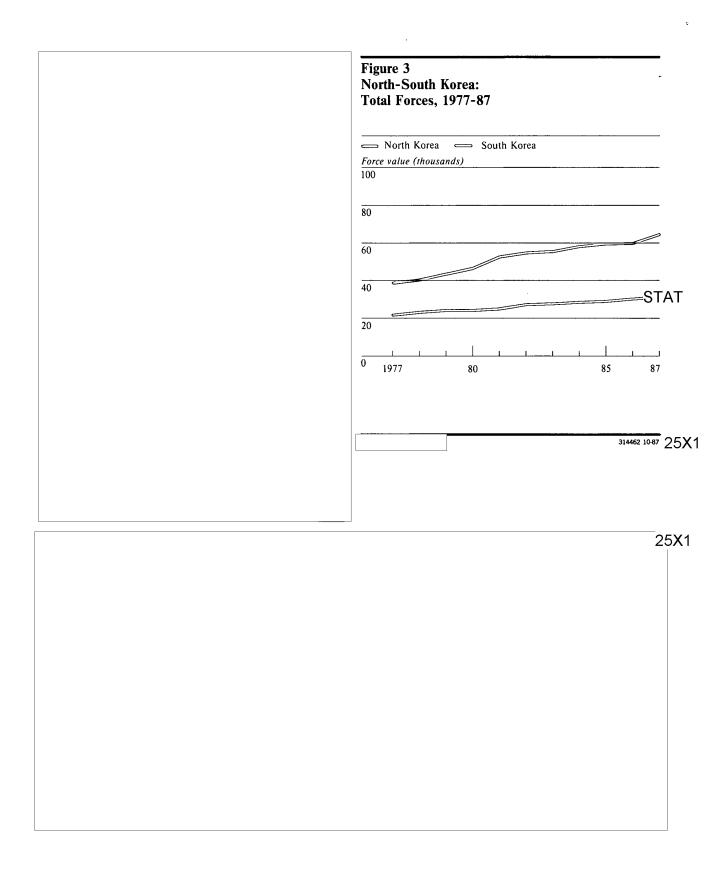


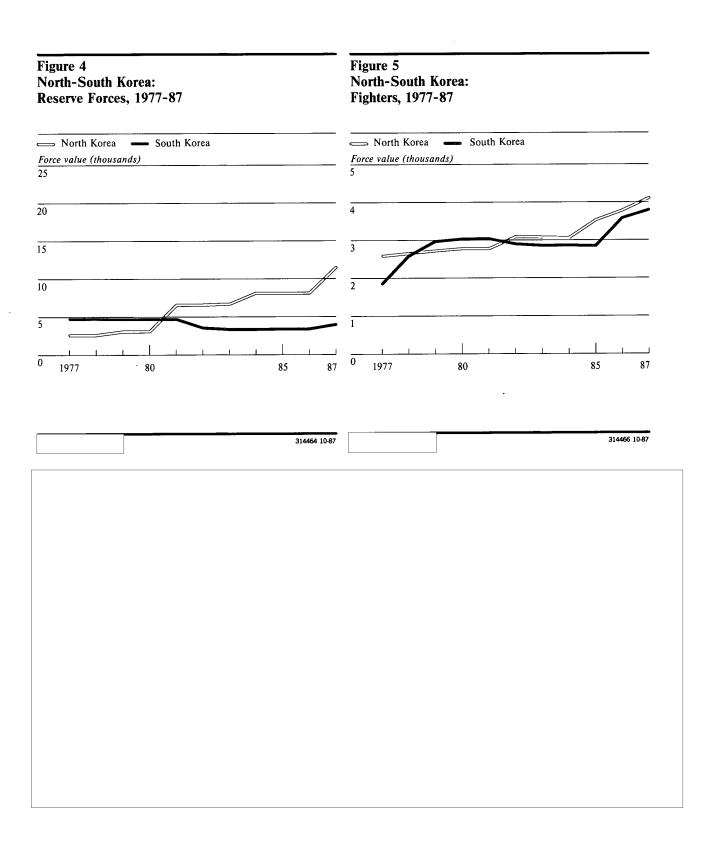
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passing on enough older weapons from the active forces to equip about 23 reserve divisions with artillery. The South is beefing up its reserves with artillery but more slowly, with less than half of its divisions comparably equipped. **Air Forces**. The North has a numerical lead in the air as well, including a 1.7-to-1 edge in fighter aircraft. In the past few years, both sides have received improved aircraft from their allies. Pyongyang has acquired 46 MIG-23 fighters from the USSR Besides fighter interceptors, each side has a force of strategic and tactical ground-based air defense weapons, in which North Korea again has a numerical advantage.	Comparing Quality A look at the number of men and weapons on both sides gives us one view of the North-South balance, but it leaves out the effect of qualitative differences in weapons. These differences can be particularly important in Korea, where the North has fielded large numbers of old weapons, while the South relies on fewer but somewhat more modern weapons	25X1 25)25X1 25)25X1 25X1 25X1 25X1 25X1
 Naval Forces. In numbers of naval ships and craft, P'yongyang has about a 3.6-to-1 edge. Both navies are dedicated to coastal defense, although the forces are structured differently: Major combatants. The North's units are mostly small patrol boats and fast attack craft, but P'yongyang also has diesel attack submarines. The South's fleet features destroyers and frigates—mostly former US ships of World War II vintage—and no submarines. These larger ships are less affected by unfavorable sea conditions and are equipped with weapon systems effective against the more numerous but smaller North Korean units. 	Ground Forces. North Korea has a total ground force about twice that of the South and has a clear lead in all five major weapon categories. Within weapon categories, the South has near qualitative parity in only one weapon type—tube artillery, because of the recent deployment of its indigenously designed, long-range KH-179 howit- zer—and has a modest lead in mortars. Reserve Forces. The North also leads in value measurements of the ready reserve forces. The qualitative value of the reserves is not likely to yield the same combat potential as active forces, because old equipment reduces in value as it ages	25X ² 25X ² 25X ² 25X ² 25X ²
• Amphibious ships. A mix of landing ships and craft gives both sides modest sea-lift capabilities	further. Air Forces. Since the late 1970s, the North has maintained about a 3-to-2 lead in total force value. In fighters, however, the South gained qualitative parity by 1977 by importing and coproducing more	25X1 25X1 25X
The South's amphibious lift centers on amphibious landing ships and craft, including some aging units acquired from the United States.		25X1 25X

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	•
capable aircraft and it has maintained that position	25.4
relative to the North's force, which is larger in numbers (see figure 5).	25X ⁻
numbers (see figure 3).	
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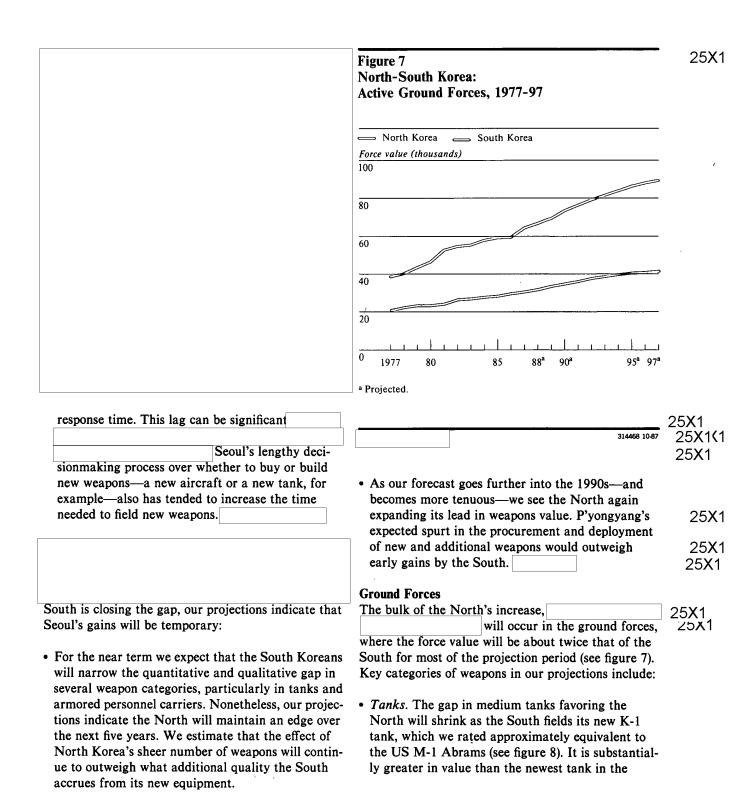
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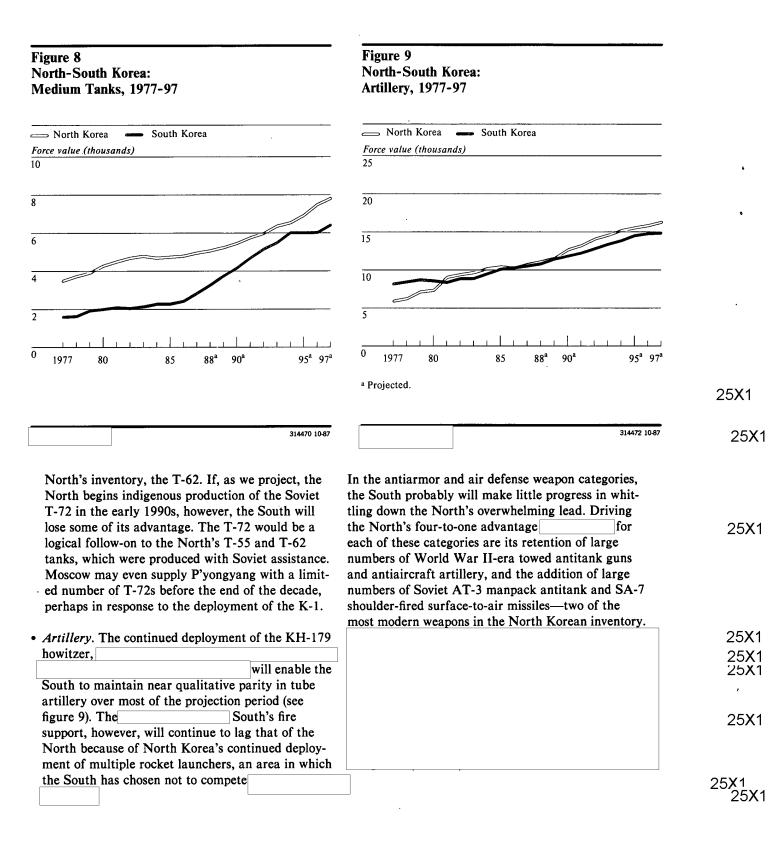
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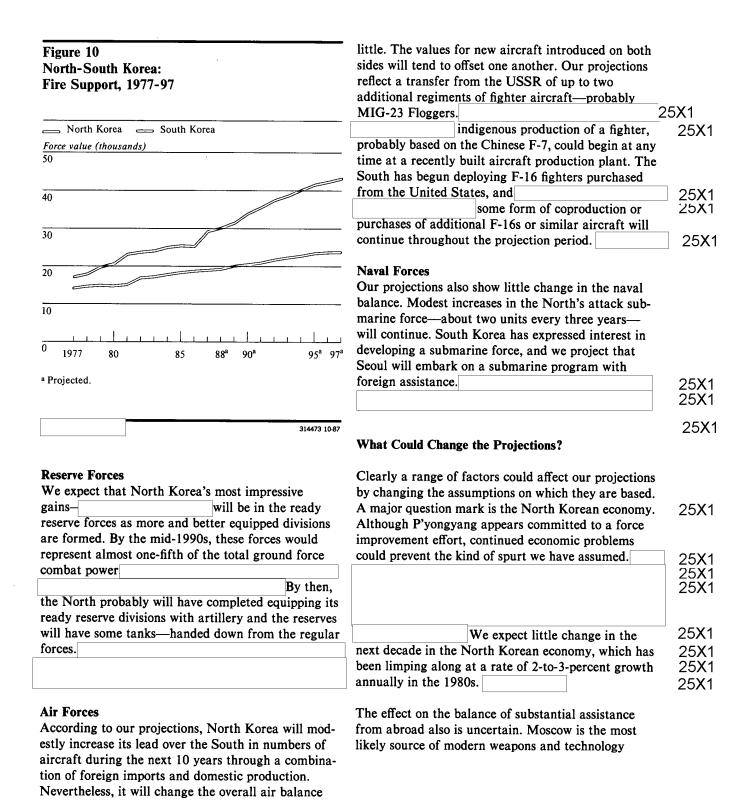
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rojecting Trends in the Balance	construction of additional 2	5X1
	defense industrial capacity all point in this direc-	
	tion. If North Korea follows through on production, P'yongyang could be positioned for a spurt in force	
	development programs in the early-to-mid-1990s.	
	Our projections are also based on the assumption	
	 Our projections are also based on the assumption that North Korea's allies will help. Shipments of 	
	that North Korea's allies will help. Shipments of weapons and equipment suggest continuing assis-	OEV.
	that North Korea's allies will help. Shipments of	25 X 1
our projections are based on several assumptions:	that North Korea's allies will help. Shipments of weapons and equipment suggest continuing assistance, and we believe more help from Moscow and Beijing may be forthcoming. Our major assumption for South Korea is that Seoul	25X1
One is that P'yongyang has made a firm commitment to move ahead with defense production. The appearance of several new weapons in a military	that North Korea's allies will help. Shipments of weapons and equipment suggest continuing assistance, and we believe more help from Moscow and Beijing may be forthcoming.	25X′





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needed to maintain the North's military superiority and relations between the two countries have grown closer over the past few years. Until recently, weapons deliveries have been modest-most notably a regiment of MIG-23 jet fighters and about two regiments of SA-3 surface-to-air missiles—and the Soviets have been careful not to provide weapons and equipment that would upset the balance with the South. Deliveries of SA-5 surface-to-air missile equipment and ZSU-23-4 mobile antiaircraft guns to North Korea, however, suggest that Moscow has eased restrictions on the types of weapons it would provide P'yongyang, and that other weapons may be forthcoming. Although both are defensive weapons, the SA-5 could reach air targets over much of South Korea, while the ZSU-23-4 helps fill a longstanding need for lowaltitude air defense systems that can move with the Army's armor and mechanized forces.

We also expect North Korea to press the Chinese for whatever benefits it can reap. Over the years, Beijing has helped P'yongyang with several weapon programs, but assistance in the form of modern weapons or technology probably will be limited. China currently is embarked on its own weapons modernization program. In our view, it will not want to risk Western assistance by passing proscribed or other potentially significant technology to the North Koreans, and defaults on loans make assistance to North Korea from Western sources unlikely.

South Korea's economic situation puts it in a much better position than the North. Economic growth in the South by our estimates is expanding at a rate two to three times that of the North from a base two and a half times larger. We believe the South will maintain a 5-to-5.5-percent allocation of GNP for defense spending over the next 10 years. This alone will enable Seoul to outspend P'yongyang on defense each year, and although Seoul has elected to funnel the lion's share of its resources into economic development, it clearly can increase resource allocations to defense.

A major unknown that could affect force development in both countries is political succession and stability. At 75, President Kim Il-song is still in charge in the North, but he is grooming his son, Kim Chong-il, as his successor. We continue to believe that senior military leaders—whom Kim Il-song has handpicked—would transfer their loyalty to Kim Chong-il, but he might not have the absolute authority his father enjoys. As the transition to a Kim Chong-il regime unfolds, the younger Kim might be willing to accede to military requests for increased spending on weapons, but it would come at the expense of other sectors of a troubled economy. A faltering transition could create strains between contenders for power or influence, perhaps providing an opening for advocates of other priorities to win cuts in military spending to improve the economy. In any event, recent indications of an increase in the use of military troops in civil construction projects suggests that Kim Il-song may have begun using such an approach to tackle economic problems and smooth the way for his son's accession.

The timetable for the political transition in South Korea is clear, with President Chun Doo Hwan set to step down in February 1988. The election is likely to lead to downward pressure on defense spending, regardless of the winner, but not enough, in our judgment, to create significant unhappiness within the military. Only in the unlikely event of a withdrawal of US military forces might we see a substantial surge in defense spending.

Implications for the United States

US forces obviously will continue to play a major role on the peninsula for the near term, particularly as the tripwire for the US security commitment and therefore, a major deterrent against a North Korean attack. The number of US troops and weapons in the South is small compared with the large forces of the two Koreas,

Nonetheless, the US division in South Korea is a major element of the available combat reserve. In addition, the US ability to bring in additional aircraft

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early enough to respond to a North Korean attack	
provides a further safety margin	25X1
Still, other factors could offset	25X1
these advantages. A week or so of poor flying weath-	
er—a common occurrence during the summer in	
Korea—at the time of a North Korean attack, for	
example, could reduce the effectiveness of our air	
superiority.	25X1
	25X1
the rapid US	25X1
reinforcement factor would be critical to a successful	20/(1
defense.	25X1
dololise.	25/1
At present, the expectation that Seoul will increasing-	
ly assume a larger share of its defense suggests that	
the US materiel and manpower commitments to the	
Korean peningula should dealine Indeed the I	
Korean peninsula should decline. Indeed, the dynamism of the South Korean georgeny, and him decline	
mism of the South Korean economy, combined with	
the expanding technological capability of its industry	
underpin the judgment that Seoul will grow more	
responsible in the 1990s for its own defense. If,	25X1
however, the gap in military	25 X 1
capabilities widens in the North's favor, the implica-	
tions for US policy and military commitments change	05.74
considerably. the South's advan-	25X1
tages—terrain and prepared defenses—will deprive	
even a considerably more heavily armed North Kore-	
an military of a decisive edge in battle. Nonetheless,	
confronted with a growing lead in North Korean	
weaponry, the South is likely to intensify pressure on	
the United States for both military and technical	
assistance.	25X1

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